

Missouri Department of Transportation

Code: R02008

Title: Senior Electrician

Exemption Status: Non-Exempt

Grade: 13

Job Description

Effective Date 01-01-2014

**Replaces
(Effective Date)** 06-01-2010

General Summary The senior electrician leads signal and lighting maintenance activities within the district and coordinates with area engineers to ensure efficient signal and lighting operations within each area. Responsibilities are performed under moderate supervision.

**Minimum/Required
Qualifications** High School Diploma or GED/HiSET, plus completion of a formal post-secondary technical training program in electronics (of at least 30 credit hours and one school year in duration).
International Municipal Signal Association Level II Certification Traffic Signals
Valid Class B Commercial Driver's License with no air brake restriction
Four years of signal and lighting experience and demonstrated knowledge of all applicable standards and procedures for job tasks within signal and lighting.
Successful completion of a work simulation examination and a medical-physical examination.

**Supervisory
Responsibilities** Lead Worker Only

Location District Offices - Traffic

**Special Working
Conditions/Job
Characteristics** Job requires heavy physical exertion and effort, including the ability to move materials by hand, operate hand tools, and perform stationary flagging.
Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

- (1) Responds to emergency calls, such as malfunctioning signals and traffic accidents involving signal and lighting equipment, and takes appropriate action.
- (2) Schedules, checks, directs and/or supervises the installation, repair, and maintenance of traffic signal equipment, radio communication equipment, roadway and navigational lighting, bridge cathodic protection, and other electronic/electrical traffic control devices.
- (3) Provides training to employees on safety, fleet equipment, technical procedures, and related topics.

- (4) Investigates and responds to public inquiries and complaints in regard to signal and lighting operations.
- (5) Provides advanced technical support and logistic support for signal and lighting personnel.
- (6) Performs advanced repair work on electronic equipment, including radios, traffic signal controllers, video cameras, and communication devices.
- (7) Makes recommendations regarding equipment and material needs, maintains inventory of electronic/electrical parts and supplies, and orders or purchases replacement parts.
- (8) Assists in the review of proposed design plans for installation of traffic control devices.
- (9) Ensures completion of the department's annual signal and lighting preventative maintenance programs.
- (10) Performs lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
- (11) Performs other responsibilities as required or assigned.

The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.